Scientific Computing
https://www.haverford.edu/scientific-computing

COURSES AVAILABLE TO FIRST-YEAR STUDENTS

CMSC 105—standard first-semester introduction to Computer Science  CMSC
CMSC 107—Intro to Computer Science for students with programming experience
CMSC 104—Topics in Introductory Programming (to be offered with Linguistics & Chemistry “flavors” in Spring 2018) Please note: This course is not recommended for students who are interested in pursuing the computer science major or minor. Students with prior computer programming experience are not permitted to enroll in this course.

(to determine placement, take the Computer Science Placement Test on the CS-Department website)

Students considering a Scientific Computing concentration are strongly advised to take:

- A Computer Science courses in their first year —ideally CMSC 105 or 107 during the Fall.
- Appropriate introductory courses in astronomy, biology, chemistry, economics, mathematics, and/or physics as pertinent to their potential major choices and interests during their first two years

Motivation

Many academic fields at Haverford include a significant sub-discipline that is explicitly computational. Examples include astronomy, biology, chemistry, economics, and physics. In many of these fields, the use of computation has become so widespread that basic literacy in computation is increasingly important and may soon become required. As a result, there are increasing opportunities for students whose programs of study give them significant skills in computing. The Scientific Computing concentration focuses on providing students with general and discipline-specific computational training, culminating in a capstone project.